

ABSTRACT

An imageable extendable stent apparatus for insertion into a bifurcating vessel or a vessel opening. The stent apparatus comprises a main stent and a flared stent, which may be used individually or in combination with each other. The flared stent may be interlocked with the main stent to provide stent coverage over the entire region of a bifurcation. The main stent of the apparatus may be deployed at the bifurcation point of a vessel, allowing unimpeded future access to the side branch of the bifurcated vessel. The flared stent may be employed at vessel openings. Also disclosed and claimed are methods for implanting the extendable stent apparatus into the bifurcation point or the ostium of a subject vessel.